

## CLAIMS:

- ✓ 1. A skid for use in a modular system for monitoring a hydrogen-cooled generator, said skid comprising:  
    a platform; and  
    a support attached to said platform and attachable to a plurality of modules for monitoring the hydrogen-cooled generator.
2. The skid of claim 1 wherein said support is attachable to at least one of a hydrogen gas purity monitoring module, a generator overheat monitoring module, a hydrogen gas dryer module, and a gas/generator monitoring module.
3. The skid of claim 1 wherein said support is attachable to a hydrogen gas purity monitoring module, a generator overheat monitoring module, a hydrogen gas dryer module, and a gas/generator monitoring module.
4. The skid of claim 1 further comprising a gas manifold attached to at least one of said platform and said support and attachable to the hydrogen-cooled generator for transferring a supply of hydrogen gas to the hydrogen-cooled generator.
5. The skid of claim 1 further comprising a gas manifold attached to at least one of said platform and said support and attachable to the hydrogen-cooled generator for transferring a supply of hydrogen gas, a supply of CO<sub>2</sub> gas, and a supply of air, to the hydrogen-cooled generator.
6. The skid of claim 1 wherein said support is attachable to a hydrogen gas purity monitoring module, a generator overheat monitoring module, a hydrogen gas dryer module, and a gas/generator monitoring module, and further

comprising a gas manifold attached to said platform and attachable to the hydrogen-cooled generator for transferring a supply of hydrogen gas, a supply of CO<sub>2</sub> gas, a supply of air, to the hydrogen-cooled generator.

7. A module connectable to a modular system for monitoring a hydrogen-cooled generator, said module comprising:

a processor for generating data associated with performance of the hydrogen-cooled generator; and

at least one of a display for displaying said data and a communications link for transferring said data to a remote location.

✓ 8. The module of claim 7 wherein said at least one of said display and said communications link comprises said display.

✓ 9. The module of claim 7 wherein said at least one of said display and said communications link comprises said communications link.

✓ 10. The module of claim 7 wherein said at least one of said display and said communications link comprises said display and said communications link.

✓ 11. The module of claim 7 wherein said data comprises data generated from information from at least one of a hydrogen gas purity monitoring module, a generator overheat monitoring module, and a hydrogen gas dryer module.

✓ 12. The module of claim 7 wherein said data comprises data generated from information from the hydrogen-cooled generator.

✓ 13. The module of claim 7 wherein said module comprises at least one of a hydrogen gas purity monitoring module, a generator overheat monitoring

module, a hydrogen gas dryer module, and a gas/generator monitoring module

14. A modular system for monitoring a hydrogen-cooled generator, said modular system comprising:

a skid comprising a platform;

A a support attached to said platform and attachable to a plurality of modules for monitoring the hydrogen-cooled generator; and

at least one of a hydrogen gas purity monitoring module, a generator overheat monitoring module, a hydrogen gas dryer module, and a gas/generator monitoring module comprising one of said plurality of modules.

15. The modular system of claim 14 wherein said support is attachable to said hydrogen gas purity monitoring module, said generator overheat

A monitoring module, said hydrogen gas dryer module, and said gas/generator monitoring module.

16. The modular system of claim 14 wherein said at least one of said hydrogen gas purity monitoring module, said generator overheat monitoring

A module, said hydrogen gas dryer module, and said gas/generator monitoring module comprises said hydrogen gas purity monitoring module, said generator overheat monitoring module, said hydrogen gas dryer module, and said gas/generator monitoring module.

17. The modular system of claim 14 further comprising a gas manifold

A attached to at least one of said platform and said support and attachable to the hydrogen-cooled generator for transferring a supply of hydrogen gas to the hydrogen-cooled generator.

A 18. The modular system of claim 14 further comprising a gas manifold attached to at least one of said platform and said support and attachable to the hydrogen-cooled generator for transferring a supply of hydrogen gas, a supply of CO<sub>2</sub> gas, and a supply of air, to the hydrogen-cooled generator.

A 19. The modular system of claim 14 wherein said support is attachable to said hydrogen gas purity monitoring module, said generator overheat monitoring module, said hydrogen gas dryer module, and the gas/generator monitoring module, and further comprising a gas manifold attached to at least one of said platform and said support and attachable to the hydrogen-cooled generator for transferring a supply of hydrogen gas, a supply of CO<sub>2</sub> gas, and a supply of air, to the hydrogen-cooled generator.

20. A modular system for monitoring a hydrogen-cooled generator, said modular system comprising:

A a skid comprising a platform;  
a support attached to said platform and attachable to a plurality of modules for monitoring the hydrogen-cooled generator;  
at least one of a hydrogen gas purity monitoring module, a generator overheat monitoring module, a hydrogen gas dryer module, and a gas/generator monitoring module comprising one of said plurality of modules; and

A said at least one of said hydrogen gas purity monitoring module, said generator overheat monitoring module, said hydrogen gas dryer module, and said gas/generator monitoring module comprising a processor for generating data associated with the performance of the hydrogen-cooled generator.

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21. The modular system of claim 20 said at least one of said hydrogen gas purity monitoring module, said generator overheat monitoring module, said hydrogen gas dryer module, and said gas/generator monitoring module further comprising at least one of a display for displaying said data and a communications link for transferring said data to a remote location.

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22. The modular system of claim 20 wherein said data comprises data generated from information from said at least one of said hydrogen gas purity monitoring module, said generator overheat monitoring module, and said hydrogen gas dryer module.

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23. The modular system of claim 20 wherein said data comprises data generated from information from said hydrogen gas purity monitoring module, said generator overheat monitoring module, and said hydrogen gas dryer module.

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24. The modular system of claim 20 wherein said data comprises data generated from information from the hydrogen-cooled generator.

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25. The modular system of claim 20 wherein said data comprises data generated from information from said hydrogen gas purity monitoring module, said generator overheat monitoring module, said hydrogen gas dryer module, and the hydrogen-cooled generator.

26. The modular system of claim 25 wherein said gas/generator monitoring module is operable for communicating with a remote location.

27. A modular system for monitoring a hydrogen-cooled generator, the modular system comprising:

a skid comprising a platform;  
a hydrogen gas purity monitoring module;  
a generator overheat monitoring module;  
a hydrogen gas dryer module;  
a gas/generator monitoring module comprising a processor for generating data associated with performance of the hydrogen-cooled generator;

a support attached to said platform and attachable to said hydrogen gas purity monitoring module, said generator overheat monitoring module, said hydrogen gas dryer module, and said gas/generator monitoring module; and

a gas manifold attached to at least one of said platform and said support and attachable to the hydrogen-cooled generator for transferring a supply of hydrogen gas, a supply of CO<sub>2</sub> gas, and a supply of air, to the hydrogen-cooled generator.

28. The modular system of claim 27 wherein said gas/generator monitoring

A module is operable for communicating with a remote location.

29. A method for use in monitoring a hydrogen-cooled generator, the method comprising:

providing a modular system for at least one of determining gas purity of hydrogen gas in the hydrogen-cooled generator, determining overheating of the hydrogen-cooled generator, and drying of hydrogen gas in the hydrogen-cooled generator.

30. The method of claim 29 further comprising generating data associated with performance of the hydrogen-cooled generator.

31. The method of claim 29 further comprising transferring information associated with the gas purity of hydrogen gas in the hydrogen-cooled generator, overheating of the hydrogen-cooled generator, drying of hydrogen gas in the hydrogen-cooled generator to a remote location.

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